

# ABSTRACT

A path searching apparatus which is used in a base station apparatus according to the CDMA (Code Division Multiple Access) systems for increasing the accuracy for path detection depending on the number of communication channels to be processed. The path searching apparatus has path searching means for generating a delay profile through to a path searching process composed of a plurality of processing units, interpolation information storage means for storing interpolation information indicative of whether an interpolation process for reducing a chip interval is to be performed or not before and after each of the processing units, interpolation position processing control means for enabling the path searching means to perform an interpolation process before and after each of the processing units based on the interpolation information stored in the interpolation information storage means according to the number of the communication channels to be processed, and path detecting means for detecting a reception path based on the delay profile generated by the path searching means.